



Sigmoid Curve

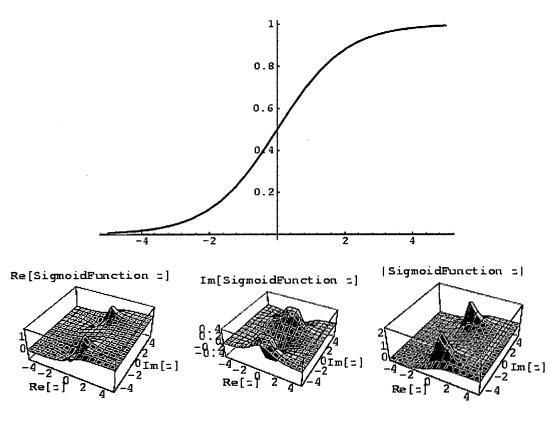
See Sigmoid Function

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Sigmoid Function



The function

$$y = \frac{1}{1 + e^{-x}}$$

which is the solution to the Ordinary Differential Equation

$$\frac{dy}{dx} = y(1-y).$$

It has an inflection point at x = 0, where

$$y''(x) = -\frac{e^x(e^x - 1)}{(e^x + 1)^3} = 0.$$

See also Exponential Function, Exponential Ramp

References

von Seggern, D. CRC Standard Curves and Surfaces. Boca Raton, FL: CRC Press, p. 124, 1993.

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Αd

Posterior probability

In <u>Bayesian probability</u> theory, the **posterior probability** is the probability of some event occurring after empirical data has been considered. It can be calculated by <u>Bayes' theorem</u>. Compare with prior probability, which is subjectively judged in the absence of empirical data.

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